# 10. Nitin

**Program Name: Nitin.java**          **Input File: nitin.dat**

Nitin owns and operates the Happy Home For Wayward Pets. HHFWP is a shelter for lost and abandoned cats and dogs. HHFWP operates on a strict protocol for adoption that says the animal that has been at the shelter for the longest time will be the next to be adopted. Those wishing to adopt may choose to adopt a dog or a cat but they may not choose a specific animal. Adopters must take the cat or dog that has been at the shelter the longest. Unfortunately, sometimes an adopter will request a certain species and all that species have already been adopted. These potential pet owners are placed on a wait list and given a call when a new cat or dog comes in. Write a program that will help Nitin print a list of adoptions or add a person on the wait list.

**Input:** The first line will have a single number P that represents the total number of pets currently up for adoption. The next P lines will list the name and species of the pets at the shelter in the order they arrived at the shelter, where the first pet has been at the shelter for the longest amount of time. The name and species will be separated by a single space. The species will be indicated by a capital D for dogs and a capital C for cats.

The next line following the list of pets will have a single number A that represents the number of people who wish to adopt a pet. The next A lines will list the name of the adopter, in the order they arrived at HHFWP, followed by the species (C or D) each person wishes to adopt.

**Output:** A list of adoptions or wait list entries each on a separate line. Each line should contain the name of the adopter, the species, and the name of the pet. The species should be spelled out as DOG or CAT. If there is not a pet available in the species requested, the entry should contain the adopters name, WAIT LIST, and the species they have requested each separated by a space.

| Sample input: | Sample output: |
|---|---|
| 10 | Noah CAT Tiger |
| Willie D | Tereza DOG Willie |
| Ralph D | Bruce DOG Ralph |
| Rover D | Olivia DOG Rover |
| Tiger C | Terry CAT Max |
| Daisy D | Irene DOG Daisy |
| Max C | Joseph DOG Lucy |
| Felix C | Estaban CAT Felix |
| Lucy D | Rashi WAIT LIST DOG |
| Bubba C | Emily CAT Bubba |
| Bella C | |
| 10 | |
| Noah C | |
| Tereza D | |
| Bruce D | |
| Olivia D | |
| Terry C | |
| Irene D | |
| Joseph D | |
| Estaban C | |
| Rashi D | |
| Emily C | |